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EXAMINER

FOWLKES, ANDRE R

ART UNIT

PAPER NUMBER

2192

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
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3 MONTHS

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

**Office Action Summary**

Application No.

09/921,298

Applicant(s)

KUTTER, PHILIPP W.

Examiner

Andre R. Fowlkes

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 02 October 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. This action is in response to the amendment filed 10/2/06.
2. Claims 1-21 are pending.

### ***Response to Amendment***

3. Claim 21 is improperly labeled as "(Original)." Claim 21 should be label (Previously presented), as it was a new claim sent with the amendment filed 3/18/05.  
  
Appropriate correction is required.

### ***Claim Objections***

4. Claim 6 is objected to because of the following informalities:
  - "module\*>" should be -- module\*)> -- at claim 6 line 5,
  - "constant>" should be -- constant\*)> -- at claim 6 line 23.Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

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6. The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

7. Claims 1-21 are rejected under 35 U.S.C. 102(e) as being anticipated by De Boor et al. (De Boor) U.S. Patent No. 6,173,316.

As per claim 1, De Boor discloses a **method for the direct execution of an XML-document in a data processing system**, (col. 3:58-67, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML"), **comprising:**

- **defining the local behavior and process for each element of the XML-document** (col. 3:59-66, "A markup language (i.e. XML) is a computer programming language that allows the content of a page or a screen display (i.e. local behavior and process) to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen"),

- **integrating executable instructions with at least one XML-document or a document type definition (DTD)** (col. 3:58-60, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML which includes DTDs, the legal building blocks of an XML document)", and this process is the integration of the executable instructions with the XML document),

- **storing intermediate states of the execution process in a memory of the data processing system by dynamically creating and redefining attributes of elements of the XML document** (col. 62:9-10, "(intermediate states of the process are stored, thereby) replacing the tag (i.e. attributes) with the second markup language page to form a combined markup language page (i.e. the elements are redefined)"),

- **where the intermediate states define intermediate states of the execution of the executable document** (col. 62:9-10, "(intermediate states of the execution of the executable document are stored, thereby) replacing the tag (i.e. attributes) with the second markup language page to form a combined markup language page", and col. 30:45-49, "(the) client is fully able to save its own state and use this information in determining subsequent states").

As per claim 2, the rejection of claim 1 is incorporated, and further De Boor discloses that:

**- integrating executable instructions by defining for each XML-element definition and its instances an action made up of executable actions, and actions which are references to either the action defined for one of the components of the element or to an action defined for any other element of the XML document** (col. 3:58-67, "providing a wireless communication device with an MMI that is based on a markup language (i.e. executable instructions integrated with XML documents). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content"),

**- executing an XML-document by executing the action defined for the root of the XML document** (col. 3:59-66, "A markup language (i.e. xml document) is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content").

As per claim 3, the rejection of claim 1 is incorporated, and further De Boor discloses that **defining a composition of the action for at least one XML-element definition or instance by graphical flow charts** (col. 7:36-38, "a flowchart of the operation of the HTMLp content handler in processing a string input associated with a user interface gadget", and col. 9:49-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML").

As per claim 4, the rejection of claim 1 is incorporated, and further De Boor discloses **defining the composition of the action for at least one XML-element definition or instance in textual form** (col. 3:59-66, "A markup language (i.e. xml document) is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instruction for the layout of the content on the page or screen (i.e. composition of the action), or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content").

As per claim 5, the rejection of claim 1 is incorporated, and further De Boor discloses:

- **representing system states** in terms of n-dimensional data cubes (col. 23:46-47, "determine the initial state of a form in a page", and one can store system states well known formats such as in data cubes or n-dimensional arrays),

- **providing an open interface by making the state information readable and writeable for other programming and database systems** (col. 23:42-47, "There are a number of extensions of HTML in the present invention that allow pages to be designed using a standard HTML editor, using arguments passed (through an open interface) by C code to complete form entry fields, or specifying data to be fetched on the fly from the device to determine the initial state of a form in a page"),

- **making data structures and functionalities of other programming and database systems accessible using executable instructions** (col. 23:42-47, "There are a number of extensions of HTML in the present invention that allow pages to be designed using a standard HTML editor, using arguments passed (using executable instructions) by C code to complete form entry fields, or specifying data to be fetched on the fly from the device to determine the initial state of a form in a page").

As per claim 6, the rejection of claim 1 is incorporated, and further De Boor discloses **modules stored in the memory of the data processing system that define a process for each element, where the modules are valid with respect to a specific DTD, which is also stored in a memory of the data processing system** (col. 3:59-66, "A markup language (i.e. XML) is a computer programming language that allows the content of a page or a screen display (i.e. local behavior and process) to be defined by



the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen", and validating modules with respect DTDs is a well known practice used with XML).

As per claim 7, the rejection of any one of the preceding claims is incorporated, and further De Boor discloses a **system for use with the method according to one of the preceding claims**, (col. 59:35-68:66, "The markup language based man-machine interface", as disclosed in the claims), **comprising:**

- **a server providing services to at least one client by executing at least parts of a XML-document according to a XML-robot specification sent from the client to the server or a server providing services to at least one client by sending a XML-robot specification and a XML-document to the client, such that said service is provided by executing of at least part of the sent document on the client according to the sent XML-robot specification** (col. 9:49-51, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content", and (below fig 14 and multi part forms) col. 30:14-22, "the data

from each form (i.e. executable xml document) to be transmitted to the server as part of the URL that fetches the next form (i.e. executable xml document). The server then takes the data passed in the URL and returns a page that must be generated on-the-fly with the passed-in data from the previous forms included as "hidden" type input elements in the form in the returned page", and an XML robot's primary function is to parse data from a backend database and return the information. In this case, a page is returned).

As per claims 8-10, this is an apparatus version of the claimed method discussed above, in claim 7, wherein all claimed limitations have also been addressed and/or cited as set forth above. For example, see De Boor, col. 9:49-51 and col. 30:14-22.

As per claim 11, De Boor discloses an **apparatus for the direct execution of XML documents, comprising: means for graphical display of XML-robot specifications within an advanced visual integrated development environment,** (col. 3:58-67, "providing a wireless communication device with an MMI (i.e. XML-robot specifications within an advanced visual integrated development environment) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible

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for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML"), **and means for generating animations of the execution process** (col. 3:58-67, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML").

As per claim 12, De Boor discloses a **method for the direct execution of XML documents**, (col. 3:58-67, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted (i.e. executed) by some automatic system responsible for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may

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extend any other markup language, such as SGML, or XML", and col. 3:58-60, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML)", and this process is the integration of the executable instructions with the XML document, (i.e. producing an executable XML document)),

**comprising:**

**- providing an execution specification including**

**>a DTD** (col. 3:58-60, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML which includes DTDs, the legal building blocks of an XML document)"),

**> graphical flow charts** (col. 7:36-38, "a flowchart of the operation of the HTMLp content handler in processing a string input associated with a user interface gadget", and col. 9:49-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML"),

**> and transition rules** (col. 3:59-66, "A markup language (i.e. XML) is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components (i.e. transition rules) of the content, instructions (i.e. transition rules) for the layout of the content on the page or screen"),

**- providing an XML document instance including an XML document** (col. 3:58-60, "providing a wireless communication device with an MMI (i.e. browser)

that is based on a markup language (i.e. XML which includes DTDs, the legal building blocks of an XML document)”),

- **using the DTD to validate the XML document** (col. 3:58-60, “providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML which includes DTDs, the legal building blocks of an XML document)”),

- **constructing an attributed structure tree** (col. 35:66-36:1, “This tag allows for a user interface page to provide a graphical instruction sheet for existing DTMF-based command trees (i.e. attributed structure tree)”),

- **decorating the attributed structure tree with the graphical flow charts to create a global flow chart** (col. 35:66-36:1, “This tag allows for a user interface page to provide a graphical instruction sheet for existing DTMF-based command trees (i.e. attributed structure tree)”),

- **and executing the global flow chart according to the transition rules to directly execute the XML document** (col. 3:59-66, “A markup language (i.e. XML) is a computer programming language that allows the content of a page or a screen display (i.e. local behavior, process and transition rules) to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen”, and col. 7:36-38, “a flowchart of the operation of the HTMLp content handler in processing a string input associated with a user interface gadget”, and

col. 9:49-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML").

As per claim 13, this is a computer readable medium/product version of the claimed method discussed above, in claim 12, wherein all claimed limitations have also been addressed and/or cited as set forth above. Additionally, such a product is deemed to be inherent in the system, otherwise, it would be inoperative.

As per claim 14, De Boor discloses a **computer-readable medium having computer-readable instructions for performing a method for the direct execution of XML-documents**, (col. 3:58-67, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML", and col. 3:58-60, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML)", and this process is the integration of the executable instructions with the XML document), **the method comprising:**

- **defining the local behavior and process for each element of a XML-document** (col. 3:58-60, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML which includes DTDs, the legal building blocks of an XML document)"),

- **integrating executable instructions with a document type definition (DTD), an XML-document** (col. 3:58-67, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML", and col. 3:58-60, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML)", and this process is the integration of the executable instructions with the XML document),

- **and storing intermediate states by dynamically creating and redefining element attributes** (col. 62:9-10, "(intermediate states of the execution of the executable document are stored and) replacing the tag with the second markup language page to form a combined markup language page").

As per claim 15, De Boor discloses **a system for the execution of an XML document comprising an interpreter generator having an input and an output, the input operative to receive an XML specification, the interpreter generator operative to produce at the output an interpreter**, (col. 3:58-67, “providing a wireless communication device with an MMI that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content”, and col. 9:45-51, “The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML”, and col. 3:58-60, “providing a wireless communication device with an MMI that is based on a markup language (i.e. XML)”, and this process is the integration of the executable instructions with the XML document to produce an interpreter, and for this interpreter program to function as desired, it has to be created, compiled/interpreted to produce a functioning executable program, in a manner that is well known and well documented in the art), **the interpreter having an input and an output, the input operative to receive an XML document, the interpreter operative to validate the XML document with respect to a general DTD and to execute the XML document** (col. 3:58-60, “providing a wireless communication device with an MMI that is based on a markup language (i.e. XML which includes DTDs, the legal building blocks of an XML



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document)", and col. 3:58-67, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted (i.e. executed) by some automatic system responsible for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML", and col. 3:58-60, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML)", and this process is the integration of the executable instructions with the XML document, (i.e. producing an executable XML document)).

As per claim 16, De Boor discloses a **system for the execution of an XML document comprising: a compiler generator having an input and an output, the input operative to receive an XML specification, the compiler generator operative to produce at the output a compiler**, (col. 3:58-67, "providing a wireless communication device with an MMI (i.e. compiler) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can

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be interpreted by some automatic system responsible for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML", and col. 3:58-60, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML)", and this process is the integration of the executable instructions with the XML document to produce an interpreter, and for this interpreter program to function as desired, it has to be created, compiled/interpreted to produce a functioning executable program, in a manner that is well known and well documented in the art), **the compiler having an input and an output, the input operative to receive a XML document valid with respect to a general DTD, the compiler operative to produce an executable document at the output** (col. 3:58-60, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML which includes DTDs, the legal building blocks of an XML document)", and col. 3:58-67, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted (i.e. executed) by some automatic system responsible for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML",

and col. 3:58-60, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML)", and this process is the integration of the executable instructions with the XML document, (i.e. producing an executable XML document)).

As per claim 17, De Boor discloses a **system for the execution of an XML document** (col. 3:58-67, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML", and col. 3:58-60, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML)", and this process is the integration of the executable instructions with the XML document to produce an interpreter, and for this interpreter program to function as desired, it has to be created, compiled/interpreted to produce a functioning executable program, in a manner that is well known and well documented in the art), **comprising: a first interpreter having an input, the input operative to receive a XML specification** (col. 3:58-67, "providing a wireless communication device with an MMI

(i.e. an interpreter) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML", and col. 3:58-60, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML)", and this process is the integration of the executable instructions with the XML document, and col. 3:58-60, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML which includes DTDs, the legal building blocks of an XML document)", **a second interpreter coupled to the first interpreter, the second interpreter having an input, the input operative to receive a XML document valid with respect to the general DTD, the first interpreter starting a process in the second interpreter, the second interpreter operative to execute the XML document** (col. 3:58-67, "providing a wireless communication device with an MMI (i.e. a second interpreter) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other

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data which can be interpreted by some automatic system (i.e. the first interpreter) responsible for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML", and col. 3:58-60, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML)", and this process is the integration of the executable instructions with the XML document, and col. 3:58-60, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML which includes DTDs, the legal building blocks of an XML document)").

As per claim 18, De Boor discloses **a system for the execution of an XML document** (col. 3:58-67, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML", and col. 3:58-60, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML)", and this process is the integration of the executable instructions

with the XML document to produce an interpreter, and for this interpreter program to function as desired, it has to be created, compiled/interpreted to produce a functioning executable program, in a manner that is well known and well documented in the art), **comprising: an interpreter having an input, the input operative to receive a XML specification, the interpreter operative to interpret the XML specification** (col. 3:58-67, "providing a wireless communication device with an MMI (i.e. an interpreter to interpret the XML specification) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML", and col. 3:58-60, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML)", and this process is the integration of the executable instructions with the XML document, and col. 3:58-60, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML which includes DTDs, the legal building blocks of an XML document)"), **a compiler coupled to the interpreter, the compiler having an input and an output, the input operative to receive an XML document, the interpreter operative to start the compiler; the compiler operative to generate an executable XML document on the output** (col. 3:58-67, "providing a

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wireless communication device with an MMI (i.e. compiler) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML", and col. 3:58-60, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML)", and this process is the integration of the executable instructions with the XML document, and col. 3:58-60, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML which includes DTDs, the legal building blocks of an XML document)").

As per claim 19, De Boor discloses **a method for the execution of an XML document** , (col. 3:58-67, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible

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for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML", and col. 3:58-60, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML)", and this process is the integration of the executable instructions with the XML document, and col. 3:58-60, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML which includes DTDs, the legal building blocks of an XML document)") **comprising:**

**(a) setting a global variable cur to a root reference** (col. 3:58-67, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content (i.e. the global variables, state and derived elements, attribute origins, cur, actions, state and variables)", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML, and col. 3:59-66, "A markup language (i.e. XML) is a computer programming language that allows the content of a page or a screen display (i.e. local behavior and process) to be defined by the inclusion of predefined symbols in



the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen”),

**(b) setting the value of a global variable mod to refer to a module element describing the execution behavior of the root** (col. 3:58-67, “providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content (i.e. the global variables, state and derived elements, attribute origins, cur, actions, state and variables)”, and col. 9:45-51, “The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML, and col. 3:59-66, “A markup language (i.e. XML) is a computer programming language that allows the content of a page or a screen display (i.e. local behavior and process) to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen”),

**(c) copying all state and derived elements from the module mod into the element cur, setting the attribute origin of all state and derived elements to cur** (col. 3:58-67, “providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer

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programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content (i.e. the global variables, state and derived elements, attribute origins, cur, actions, state and variables)", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML, and col. 3:59-66, "A markup language (i.e. XML) is a computer programming language that allows the content of a page or a screen display (i.e. local behavior and process) to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen")

**(d) copying the state and derived elements of the sub-modules of module mod into the corresponding components of element cur** (col. 3:58-67, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content (i.e. the global variables, state and derived elements, attribute origins, cur, actions, state and variables)", and col. 9:45-51, "The present invention is

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not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML, and col. 3:59-66, "A markup language (i.e. XML) is a computer programming language that allows the content of a page or a screen display (i.e. local behavior and process) to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen"),

**(e) update cur to cur.traverse; and (f) if cur is undefined then executing the XML document else returning to (a)** (col. 3:58-67, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content (i.e. the global variables, state and derived elements, attribute origins, cur, actions, state and variables)", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML, and col. 3:59-66, "A markup language (i.e. XML) is a computer programming language that allows the content of a page or a screen display (i.e. local behavior and process) to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen").

As per claim 20, the rejection of claim 19 is incorporated and further, De Boor discloses that **executing the XML document**, (col. 3:58-67, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML", and col. 3:58-60, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML)", and this process is the integration of the executable instructions with the XML document, and col. 3:58-60, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML which includes DTDs, the legal building blocks of an XML document)"), **comprises:**

(i) **setting cur to the XML document's root** (col. 3:58-67, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can

be interpreted by some automatic system responsible for displaying, manipulating or modifying the content (i.e. the global variables, state and derived elements, attribute origins, cur, actions, state and variables)", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML, and col. 3:59-66, "A markup language (i.e. XML) is a computer programming language that allows the content of a page or a screen display (i.e. local behavior and process) to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen"),

**(ii) setting a global variable curstate to initial** (col. 3:58-67, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content (i.e. the global variables, state and derived elements, attribute origins, cur, actions, state and variables)", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML, and col. 3:59-66, "A markup language (i.e. XML) is a computer programming language that allows the content of a page or a screen display (i.e. local behavior and process) to be defined by the inclusion of predefined symbols in

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the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen”),

**(iii) iterating a variable state over all state elements of cur** (col. 3:58-67, “providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content (i.e. the global variables, state and derived elements, attribute origins, cur, actions, state and variables)”, and col. 9:45-51, “The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML, and col. 3:59-66, “A markup language (i.e. XML) is a computer programming language that allows the content of a page or a screen display (i.e. local behavior and process) to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen”),

**(iv) if a name attribute of state matches curstate then setting cur to the value of attribute origin of state else terminate execution** (col. 3:58-67, “providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of

predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content (i.e. the global variables, state and derived elements, attribute origins, cur, actions, state and variables)", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML, and col. 3:59-66, "A markup language (i.e. XML) is a computer programming language that allows the content of a page or a screen display (i.e. local behavior and process) to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen"),

**(v) iterating over all actions inside state** (col. 3:58-67, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content (i.e. the global variables, state and derived elements, attribute origins, cur, actions, state and variables)", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML, and col. 3:59-66, "A markup language (i.e. XML) is a

computer programming language that allows the content of a page or a screen display (i.e. local behavior and process) to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen”),

(vi) **resetting cur to its original value; and (vii) returning to (iii)** (col. 3:58-67, “providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content (i.e. the global variables, state and derived elements, attribute origins, cur, actions, state and variables)”, and col. 9:45-51, “The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML, and col. 3:59-66, “A markup language (i.e. XML) is a computer programming language that allows the content of a page or a screen display (i.e. local behavior and process) to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen”).

As per claim 21, De Boor discloses **a method for the direct execution of XML-documents**, (col. 3:58-67, “providing a wireless communication device with an MMI



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that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML", and col. 3:58-60, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML)", and this process is the integration of the executable instructions with the XML document, and col. 3:58-60, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML which includes DTDs, the legal building blocks of an XML document)", **the method comprising:**

- **defining the local behavior and process for each element of a XML-document** (col. 3:58-67, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content"),

- **integrating executable instructions with at least on XML document or a document type definition (DTD)** (col. 3:58-60, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML)", and this process is the integration of the executable instructions with the XML document),

- **and storing intermediate states of the execution process in a memory of the data processing system by dynamically creating and redefining element attributes** (col. 62:9-10, "(intermediate states of the execution of the executable document are stored and) replacing the tag with the second markup language page to form a combined markup language page").

### ***Response to Arguments***

9. Applicants arguments have been considered but they are not persuasive.

*In the remarks, the applicant has argued substantially that:*

1) Regarding claim 1, DeBoor does not disclose storing the intermediate states of the execution process, where the intermediate states define intermediate states of the execution process, at p. 9:22-10:3.

*Examiner's response:*

1) The examiner disagrees with applicant's characterization of the applied art. DeBoor does disclose storing the intermediate states of the execution process, where the intermediate states define intermediate states of the execution process, at col. 62:9-

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10, "(intermediate states of the execution of the executable document are stored, thereby) replacing the tag (i.e. attributes) with the second markup language page to form a combined markup language page", and col. 30:45-49, "(the) client is fully able to save its own state and use this information in determining subsequent states."

*In the remarks, the applicant has argued substantially that:*

2) Regarding claim 7, DeBoor does not disclose an XML robot specification sent from a client, at p. 10:14-20.

*Examiner's response:*

2) The examiner disagrees with applicant's characterization of the applied art. DeBoor does disclose an XML robot specification sent from a client, at col. 9:49-51, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content", and (below fig 14 and multi part forms) col. 30:14-22, "the data from each form (i.e. executable xml document) to be transmitted to the server as part of the URL that fetches the next form (i.e. executable xml document). The server then takes the data passed in the URL and returns a page that must be

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generated on-the-fly with the passed-in data from the previous forms included as "hidden" type input elements in the form in the returned page", and an XML robot's primary function is to parse data from a backend database and return the information. In this case, a page is returned.

*In the remarks, the applicant has argued substantially that:*

3) Regarding claim 12, mention of a "flowchart" in DeBoor does not disclose the "graphical flow chart" as recited in applicant's claim 12, at p. 10:24-26.

*Examiner's response:*

3) The examiner disagrees with applicant's characterization of the applied art. DeBoor does disclose a graphical flow chart, at col. 7:36-38, "flowchart", and a flowchart is defined as "a graphical map of the path of control or data through ... a program", by the 5th Ed. of the Microsoft Computer Dictionary. Further, the examiner is not aware of any text-based or other type of flow charts that are not graphical. Applicant's assistance is greatly appreciated in describing the difference between applicant's graphical flowchart and the well known and well document flowchart as described in the Microsoft dictionary, among other texts.

*In the remarks, the applicant has argued substantially that:*

4) DeBoor does not disclose the transition rules as recited in claims 12 and 13, at p. 11:1-2.

*Examiner's response:*

4) The examiner disagrees with applicant's characterization of the applied art. DeBoor does disclose the transition rules, at col. 3:59-66, "A markup language (i.e. XML) is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components (i.e. transition rules) of the content, instructions (i.e. transition rules) for the layout of the content on the page or screen"

Further, applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

Applicant should submit an argument under the heading "Remarks" pointing out disagreements with the examiner's contentions. Applicant must also discuss the references applied against the claims, explaining how the claims avoid the references or distinguish from them.

*In the remarks, the applicant has argued substantially that:*

5) DeBoor does not disclose the compiler or interpreter described in claims 15, 16, 17, and 18, at p. 11:3-5.

*Examiner's response:*

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5) The examiner disagrees with applicant's characterization of the applied art.

DeBoor does disclose the compiler or interpreter described in claims 15, 16, 17, and 18, at col. 3:58-67, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML", and col. 3:58-60, "providing a wireless communication device with an MMI that is based on a markup language (i.e. XML)", and this process is the integration of the executable instructions with the XML document to produce an interpreter, and for this interpreter program to function as desired, it has to be created, compiled/interpreted to produce a functioning executable program, in a manner that is well known and well documented in the art.

*In the remarks, the applicant has argued substantially that:*

6) DeBoor does not disclose setting a global variable to refer to a module element describing the execution behavior of the root, and the rest of the claim elements, at p. 11:7-12.

*Examiner's response:*

6) The examiner disagrees with applicant's characterization of the applied art. DeBoor does disclose setting a global variable to refer to a module element describing the execution behavior of the root, and the rest of the claim elements, at col. 3:58-67, "providing a wireless communication device with an MMI (i.e. browser) that is based on a markup language (i.e. XML). A markup language is a computer programming language that allows the content of a page or a screen display to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen, or other data which can be interpreted by some automatic system responsible for displaying, manipulating or modifying the content (i.e. the global variables, state and derived elements, attribute origins, cur, actions, state and variables, etc)", and col. 9:45-51, "The present invention is not limited to HTML, but also operates with, and may extend any other markup language, such as SGML, or XML, and col. 3:59-66, "A markup language (i.e. XML) is a computer programming language that allows the content of a page or a screen display (i.e. local behavior and process) to be defined by the inclusion of predefined symbols in the content itself indicating the logical components of the content, instructions for the layout of the content on the page or screen." Applicant's assistance is greatly appreciated in describing which, if any, of these common, well known operations constitute the novelty of this invention.

Further, applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without

specifically pointing out how the language of the claims patentably distinguishes them from the references.

Applicant should submit an argument under the heading "Remarks" pointing out disagreements with the examiner's contentions. Applicant must also discuss the references applied against the claims, explaining how the claims avoid the references or distinguish from them.

### ***Conclusion***

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andre R. Fowlkes whose telephone number is (571) 272-3697. The examiner can normally be reached on Monday - Friday, 8:00am-4:30pm.

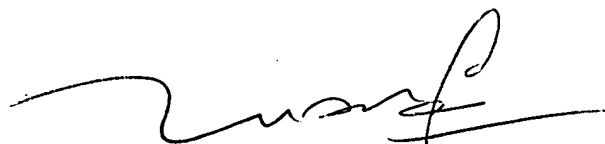


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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (571)272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ARF



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SUPERVISORY PATENT EXAMINER